

## T314

# System 800xA - Basic Configuration



Learn the basics of System 800xA. Explain the System 800xA system architecture and its many components.

### Course type and methods

This is an instructor led workshop with short presentations and demonstrations, extended exercises, hands on sessions and discussion. Approximately 50% of the course is hands-on lab.

### Student Profile

This training is targeted to System 800xA users who need to learn the fundamentals in order to form a foundation for maintenance and administration skills. If more comprehensive engineering skills are needed, it is recommended to consider T315 instead.

Note: There is some overlap in T314 with the material of T308 Hardware and Troubleshooting. Since both courses are intended not to require prerequisite knowledge of 800xA, there is introductory material in both courses that is very similar.

### Prerequisites

Students shall know the fundamentals of working with Control Systems and have basic knowledge of Windows.

### Course objectives

Upon completion of this course the participants will be able to:

- Explain the System 800xA architecture and the function of the different components

- Modify existing application programs by using Function Block Diagrams, Sequential Function Charts, Structured Text and Control Modules
- Describe the structure of application programs i.e. variables, libraries, programs, tasks
- Troubleshoot the OPC connectivity to AC800M
- Configure the AC 800M hardware and corresponding I/O's
- Modify graphic displays
- Manage and configure alarm and events
- Monitor trends and configure historical data collection
- Import / export System 800xA data

### Main topics

- System 800xA architecture
- AC 800M Hardware
- Applications with FBD, ST, and SFC
- Control Modules
- Alarm and Events
- Historian and Trends
- Graphic Displays
- Operator Workplace
- Function Designer
- Import / export

### Duration

The duration is 5 days

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## Course Outline

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Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none"><li>• Course overview</li><li>• System 800xA architecture</li><li>• Operation</li><li>• Engineering workplace</li><li>• Application structures</li></ul>	<ul style="list-style-type: none"><li>• AC 800M hardware</li><li>• Library handling</li><li>• Applications with Function Block Diagram</li><li>• Monitoring applications</li></ul>	<ul style="list-style-type: none"><li>• Task assignment and Memory</li><li>• Control Modules</li><li>• Sequential Function Charts (SFC)</li></ul>	<ul style="list-style-type: none"><li>• Alarm and Events</li><li>• Graphic displays</li><li>• Historian and Trends</li><li>• Operator Workplaces</li></ul>	<ul style="list-style-type: none"><li>• Import and Export</li><li>• Function Designer</li></ul>

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